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EXAMINER
BHATIA, AJAY M

ART UNIT	PAPER NUMBER
2145	

DATE MAILED: 10/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	10/016,223	CHANG ET AL.
	Examiner	Art Unit	
	Ajay M. Bhatia	2145	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on *12 August 2005*.

2a) ☒ This action is **FINAL**.   2b) ☐ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) *1,3-9,11-33,35-41,43-67 and 69-78* is/are pending in the application.

 4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) *1, 3-9, 11-33, 35-41, 43-67, 69-78 and 8* is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

 a) ☐ All   b) ☐ Some *   c) ☐ None of:

 1. ☐ Certified copies of the priority documents have been received.

 2. ☐ Certified copies of the priority documents have been received in Application No. _____.

 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

 * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

5) ☐ Notice of Informal Patent Application (PTO-152)

6) ☐ Other: _____ .

Response to Arguments

Applicant's arguments with respect to claims 1, 3-9, 11-33, 35-41, 43-67, 69-78 and 80-96 have been considered. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action.

Applicant has made two clear arguments to his remarks. That Lo or Yamamoto fail to teach a wireless communication channel between a mobile information apparatus and one or more output devices, second that a scanner is not a mobile device.

In response to the first argument about the wireless communication channel, applicant agrees with the examiner that Lo teaches the use of a wireless network such as a radio frequency network (Lo, Col. 6 lines 24-26). The second part of the same argument the applicant argues the server as the output device. As the title of Lo states a scanner over a network to a client computer, the output device is the client computer over the network, which above the applicant agreed could be wireless. Therefore this argument fails to persuade the examiner.

The second argument the scanner is not mobile is in correct. "The American Heritage College Dictionary" state the definition of mobile as "Capable of moving or of being moved readily from place to place" as the scanner inherently was not created were it was being used it is mobile.

It is clear from the applicant remark the intention of the claimed invention, but currently the limitation as broadly interpreted within the art the limitation fail to define the invention according to the remarks presented. Therefore the argument presented fail to persuade the examiner.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3-9, 11-33, 35-41, 43-67, 69-78 and 80-96 are rejected under 35

U.S.C. 103(a) as being unpatentable over Yamamoto et al. (U.S. Patent 6,553,431

referred to as Yamamoto) in view of Lo et al. (U.S. Patent 5,519,641 referred to as Lo).

For claim 1,

Yamamoto fails to teach, the communication channel including a radio frequency

wireless communication channel

Lo teaches, the communication channel including a radio frequency wireless

communication channel

Yamamoto-Lo teaches, a data output method for rendering at one or more output

devices data content accessed from mobile information apparatus, comprising:

establishing a communication channel between the mobile information apparatus and

the one or more output devices, at the mobile information apparatus; (See Lo, Col. 6

lines 18-29) (See Yamamoto, Col. 8 lines 13-27)

receiving at the mobile information apparatus over the communication channel one or

more attributes corresponding to the one or more output devices;

selecting at the mobile information apparatus the one or more output devices for

rendering the data content based at least in part on the one or more attributes; (See

Yamamoto, Col. 10 lines 12-25)and

delivering the data content to the one or more selected output devices for rendering.

(See Lo, Col. 7 lines 35-20) and (See Yamamoto, Col. 10 lines 12-25 and Col. 2 lines

54-60)

It would have been obvious to on of ordinary skill in the art at the time of the invention

was made to combine Yamamoto and Lo as the applicant supports in his argument on

page 15 2 paragraph of remarks filed 8/12/2005 Yamamoto and Lo are analogues art of

scanning across a computer network. (see Lo, Col. 2 lines 38-47) and (see Yamamoto,

Col. 6 lines 32-50)

For claim 3, Yamamoto-Lo teaches, the method of claim 1 in which the data content

resides in the mobile information apparatus. (See Yamamoto, Col. 10 lines 12-25)

For claim 4, Yamamoto-Lo teaches, the method of claim 1 further including obtaining the data content from a data source distinct from the mobile information apparatus. (See Yamamoto, Col. 12 lines 35-49)

For claim 5, Yamamoto-Lo teaches, the method of claim 1 further comprising obtaining authentication information from the mobile information apparatus and authenticating permission for the mobile information apparatus to access the one or more output devices. (See Yamamoto, Col. 27 lines 33-43, Col. 28 lines 34-44, and Col. 28 line 57 to Col. 29 line 18)

For claim 6, Yamamoto-Lo teaches, the method of claim 1 further including obtaining from the mobile information apparatus payment information to administer payment for the output service that is selected. (See Yamamoto, Col. 24 lines 41-44)

For claim 7, Yamamoto-Lo teaches, the method of claim 1 further including the mobile information apparatus discovering the one or more output devices to be available to render the data content. (See Lo, Col. 7 lines 21-33)

For claim 7, Yamamoto-Lo teaches, the method of claim 1 further including the mobile information apparatus discovering the one or more output devices to be available to render the data content. (See Yamamoto, Col. 24 line 53 to Col. 25 line 15)

For claim 8, Yamamoto-Lo teaches, the method of 7 in which discovering the one or more output devices includes the mobile information apparatus broadcasting an output service request and awaiting one or more responses from the one or more output devices. (See Yamamoto, Col. 24 line 53 to Col. 25 line 15)

For claim 9, Yamamoto-Lo teaches, the method of claim 7 in which discovering the one or more output devices includes the one or more output devices broadcasting information about the output services they provide and awaiting to be contacted by the mobile information apparatus. (See Yamamoto, Col. 24 line 53 to Col. 25 line 15)

For claim 11, Yamamoto-Lo teaches, the method of claim 7 in which the discovering of one or more output devices involves determining if the one or more output devices satisfy one or more output service requirements. (See Yamamoto, Co. 12 lines 17-35)

For claim 12, Yamamoto-Lo teaches, the method of claim 11 in which the one or more output service requirements include one or more of price, quality of service, and availability. (See Yamamoto, Co. 12 lines 17-35)

For claim 13, Yamamoto-Lo teaches, the method of claim 7 in which the mobile information apparatus discovers the one or more output devices with wireless communication. (See Lo, Col. 6 lines 18-29)

For claim 14, Yamamoto-Lo teaches, the method of claim 1 in which the attributes associated with the one or more output devices include information characterizing the one or more output devices. (See Yamamoto, Co. 12 lines 17-35)

For claim 15, Yamamoto-Lo teaches, the method of claim 14 in which the information characterizing the one or more output devices includes one or more of a make identifier, a model identifier, an output device type identifier, an output data format identifier, and an output device identifier. (See Yamamoto, Co. 12 lines 17-35 and Col. 11 lines 12-29)

For claim 16, Yamamoto-Lo teaches, the method of claim 1 in which the attributes associated with the one or more output devices include information characterizing output services provided by the one or more output devices. (See Yamamoto, Co. 12 lines 17-35 and Col. 11 lines 12-29)

For claim 17, Yamamoto-Lo teaches, the method of claim 16 in which the information characterizing the output services includes one or more of a quality of service indicator, an availability of service indicator and a service fee indicator. (See Yamamoto, Co. 12 lines 17-35 and figure 7)

For claim 18, Yamamoto-Lo teaches, the method of claim 1 in which the selecting of the one or more output devices includes input from a user. (See Yamamoto, Col. 10 lines 31-36)

For claim 19, Yamamoto-Lo teaches, the method of claim 1 in which the selecting of the one or more output devices is based at least in part upon a predetermined default criterion that is stored in the mobile information apparatus. (See Yamamoto, Col. 10 lines 26-31)

For claim 20, Yamamoto-Lo teaches, the method of claim 1 further including receiving at the mobile information apparatus via the communication channel components enabling the data content to be rendered by the selected one or more output devices. (See Yamamoto, Col. 11 lines 46-48)

For claim 21, Yamamoto-Lo teaches, the method of claim 20 in which the components include software code. (See Yamamoto, Col. 31 lines 50-65)

For claim 22, Yamamoto-Lo teaches, the method of claim 20 in which the components include a software application. (See Yamamoto, Col. 10 line 37 to Col. 11 line 5)

For claim 23, Yamamoto-Lo teaches, the method of claim 20 in which the components correspond to one or more of a device driver, a printer driver, an output driver, and a user interface. (See Yamamoto, Col. 10 line 37 to Col. 11 line 5)

For claim 24, Yamamoto-Lo teaches, the method of claim 1 in which the mobile

information apparatus includes one of a mobile computing device, a pervasive device, a

digital camera, and a personal computer. (See Yamamoto, Col. 8 lines 13-27)

For claim 25, Yamamoto-Lo teaches, the method of claim 1 in which the one or more

output devices include one or more of a printing device, a display device, and an audio

output device. (See Yamamoto, Col. 14 lines 8-15)

For claim 26, Yamamoto-Lo teaches, the method of claim 1 further including conforming

at the mobile information apparatus the data content to an output data format

compatible with the one or more selected output devices before delivering the data

content to the one or more selected output devices for rendering. (See Yamamoto, Col.

10 lines 12-31)

For claim 27, Yamamoto-Lo teaches, the method of claim 26 in which the conforming of

the data content employs the one or more attributes. (See Yamamoto, Col. 24 lines 13-

17, JPEG and GIF are inherently raster type image formats, Col. 11 lines 50 to Col. 12

line 35 and figure 7)

For claim 28, Yamamoto-Lo teaches, the method of claim 26 in which conforming the

data content includes at least partial raster image processing of the data content. (See

Yamamoto, Col. 24 lines 13-17, JPEG and GIF are inherently raster type image formats, Col. 11 lines 50 to Col. 12 line 35 and figure 7)

For claim 29, Yamamoto-Lo teaches, the method of claim 1 further including delivering the data content to an output controller before delivering the data content to the selected output device. (See Yamamoto, Col. 11 lines 50 to Col. 12 line 35)

For claim 30, Yamamoto-Lo teaches, the method of claim 29 in which the output controller is one of a server, an external controller and a data access point. (See Yamamoto, Col. 10 lines 12-25)

For claim 31, Yamamoto-Lo teaches, the method of claim 29 further including performing raster image processing on the data content at the one or more selected output devices. (See Yamamoto, Col. 24 lines 13-17, JPEG and GIF are inherently raster type image formats, Col. 11 lines 50 to Col. 12 line 35 and figure 7)

For claim 32, Yamamoto-Lo teaches, the method of claim 29 further including converting the data content into an output data compatible with the one or more selected output devices. (See Yamamoto, Col. 24 lines 13-17, JPEG and GIF are inherently raster type image formats, Col. 11 lines 50 to Col. 12 line 35 and figure 7)

For claim 33, Yamamoto-Lo teaches, a data output method for rendering at a selected

output device data content accessed from mobile information apparatus, comprising:

establishing a communication channel between the mobile information apparatus and

the selected output device, the communication channel including a radio frequency

wireless communication channel at the mobile information apparatus; (See Lo, Col. 6

lines 18-29)

receiving at the mobile information apparatus one or more components associated with

the selected output device and enabling the data content to be rendered by the selected

output device, the one or more components including an indication of an output data

associated with the selected output device;

conforming at the mobile information apparatus the data content to the output data

associated with the selected output device; and

delivering the output data to the selected output device for rendering. (See Lo, Col. 7

lines 35-20, Col. 6 lines 18-29) (See Yamamoto, Col. 8 lines 13-27, Col. 10 lines 12-25,

Col. 10 lines 12-25, Col. 2 lines 54-60, Col. 24 lines 13-17, JPEG and GIF are inherently

raster type image formats, Col. 11 lines 50 to Col. 12 line 35 and figure 7)

For claim 35, Yamamoto-Lo teaches, the method of claim 33 in which the data content

resides in the mobile information apparatus. (See Yamamoto, Col. 10 lines 12-25)

For claim 36, Yamamoto-Lo teaches, the method of claim 33 further including obtaining the data content from a data source distinct from the mobile information apparatus. (See Yamamoto, Col. 12 lines 35-49)

For claim 37, Yamamoto-Lo teaches, the method of claim 33 further comprising obtaining authentication information from the mobile information apparatus and authenticating permission for the mobile information apparatus to access the selected output device. (See Yamamoto, Col. 27 lines 33-43, Col. 28 lines 34-44, and Col. 28 line 57 to Col. 29 line 18)

For claim 38, Yamamoto-Lo teaches, the method of claim 33 further including obtaining from the mobile information apparatus payment information to administer payment for rendering service provided at the selected output device. (See Yamamoto, Col. 24 lines 41-44)

For claim 39, Yamamoto-Lo teaches, the method of claim 33 further including the mobile information apparatus discovering the selected output device to be available to render the data content. (See Lo, Col. 7 lines 21-33)

For claim 39, Yamamoto-Lo teaches, the method of claim 33 further including the mobile information apparatus discovering the selected output device to be available to render the data content. (See Yamamoto, Col. 24 line 53 to Col. 25 line 15)

For claim 40, Yamamoto-Lo teaches, the method of claim 39 in which discovering the selected output device includes the mobile information apparatus broadcasting an output service request and awaiting a response from the selected output device. (See Yamamoto, Col. 24 line 53 to Col. 25 line 15)

For claim 41, Yamamoto-Lo teaches, the method of claim 39 in which discovering the selected output device includes the selected output device broadcasting information about its availability and awaiting to be contacted by the mobile information apparatus. (See Yamamoto, Col. 24 line 53 to Col. 25 line 15)

For claim 43, Yamamoto-Lo teaches, the method of claim 39 in which the discovering of the selected output device involves determining if the selected output device satisfies one or more output service requirements. (See Yamamoto, Co. 12 lines 17-35)

For claim 44, Yamamoto-Lo teaches, the method of claim 43 in which the one or more output service requirements include one or more of price, quality of service, and availability. (See Yamamoto, Co. 12 lines 17-35 and figure 7)

For claim 45, Yamamoto-Lo teaches, the method of claim 39 in which the mobile information apparatus discovers the selected output device with wireless communication. (See Lo, Col. 6 lines 18-29)

For claim 46, Yamamoto-Lo teaches, the method of claim 33 in which the one or more components are stored in the one or more output devices. (See Yamamoto, Co. 12 lines 17-35)

For claim 47, Yamamoto-Lo teaches, the method of claim 33 in which the one or more components are stored in one or more output controllers associated with the output devices. (See Yamamoto, Col. 11 lines 50 to Col. 12 line 35)

For claim 48, Yamamoto-Lo teaches, the method of claim 33 in which the one or more components include at least part of a printer driver. (See Yamamoto, Col. 10 line 37 to Col. 11 line 5)

For claim 49, Yamamoto-Lo teaches, the method of claim 33 in which the one or more components include software code. (See Yamamoto, Col. 31 lines 50-65)

For claim 50, Yamamoto-Lo teaches, the method of claim 33 in which the one or more components include one or more device dependent parameters relating to the selected output device. (See Yamamoto, Col. 11 lines 12-29)

For claim 51, Yamamoto-Lo teaches, the method of claim 33 in which the one or more components relate to one or more of a device driver, a printer driver, an output driver, and a user interface. (See Yamamoto, Col. 10 line 37 to Col. 11 line 5)

For claim 52, Yamamoto-Lo teaches, the method of claim 33 in which the one or more components include a software application. (See Yamamoto, Col. 10 line 37 to Col. 11 line 5)

For claim 53, Yamamoto-Lo teaches, the method of claim 33 further including selecting at the mobile information apparatus the selected output device from among plural output devices based on one or more selection criteria. (See Yamamoto, Col. 11 lines 12-29)

For claim 54, Yamamoto-Lo teaches, the method of claim 53 in which the one or more selection criteria are obtained from a user. (See Yamamoto, Col. 10 lines 31-36)

For claim 55, Yamamoto-Lo teaches, the method of claim 53 in which the one or more selection criteria are automatically defined based on a predetermined default stored on the mobile information apparatus. (See Yamamoto, Col. 10 lines 31-36)

For claim 56, Yamamoto-Lo teaches, the method of claim 33 in which conforming the data content includes performing raster image processing on the data content. (See

Yamamoto, Col. 24 lines 13-17, JPEG and GIF are inherently raster type image formats, Col. 11 lines 50 to Col. 12 line 35 and figure 7)

For claim 57, Yamamoto-Lo teaches, the method of claim 33 further including performing raster image processing on the output data at the selected output device. (See Yamamoto, Col. 24 lines 13-17, JPEG and GIF are inherently raster type image formats, Col. 11 lines 50 to Col. 12 line 35 and figure 7)

For claim 58, Yamamoto-Lo teaches, the method of claim 33 further including converting the output data into a form compatible to one of an output engine, a printer engine, an output controller, and a printer controller. (See Yamamoto, Col. 24 lines 13-17, JPEG and GIF are inherently raster type image formats, Col. 11 lines 50 to Col. 12 line 35 and figure 7)

For claim 59, Yamamoto-Lo teaches, the method of claim 33 in which the conformed data content is further processed in an output controller associated with the selected output device before being delivered to the selected output device. (See Yamamoto, Col. 24 lines 13-17, JPEG and GIF are inherently raster type image formats, Col. 11 lines 50 to Col. 12 line 35, figure 7 and Col. 10 lines 26-36)

For claim 60, Yamamoto-Lo teaches, the method of claim 33 in which the mobile

information apparatus includes one of a mobile computing device, a pervasive device, a

digital camera, and a personal computer. (See Yamamoto, Col. 8 lines 13-27)

For claim 61, Yamamoto-Lo teaches, the method of claim 33 in which the output device

includes one of a printing device, a display device, and an audio output device. (See

Yamamoto, Col. 14 lines 8-15)

For claim 62, Yamamoto-Lo teaches, the method of claim 33 in which the output data

includes compressed data. (See Yamamoto, Col. 24 lines 13-17, JPEG and GIF are

inherently raster type image formats and compressed image formats, Col. 11 lines 50 to

Col. 12 line 35 and figure 7)

For claim 63. Yamamoto-Lo teaches, in a computer readable medium, data output

software for rendering at one or more output devices data content accessed from an

mobile information apparatus, comprising:

software for establishing a communication channel between the mobile information

apparatus and the one or more output devices, the communication channel including a

radio frequency wireless communication channel at the mobile information apparatus;

(See Lo, Col. 6 lines 18-29)

software for receiving at the mobile information apparatus over the communication

channel one or more attributes corresponding to the one or more output devices;

software for selecting at the mobile information apparatus the one or more output

devices for rendering the data content based at least in part on the one or more

attributes; and

software for delivering the output data to the one or more selected output devices for

rendering. . (See Yamamoto, Col. 8 lines 13-27, Col. 10 lines 12-25, Col. 10 lines 12-25,

Col. 2 lines 54-60, Col. 24 lines 13-17, JPEG and GIF are inherently raster type image

formats, Col. 11 lines 50 to Col. 12 line 35 and figure 7) (See Lo, Col. 7 lines 35-20, Col.

6 lines 18-29)

For claim 64, Yamamoto-Lo teaches, the medium of claim 63 further including software

for conforming at the mobile information apparatus the data content in accordance with

the one or more attributes before delivering the data content to the one or more

selected output devices for rendering. (See Yamamoto, Col. 10 lines 12-25)

For claim 65. In a computer readable medium, data output software for rendering at a

selected output device data content accessed from an mobile information apparatus,

comprising:

software for establishing a communication channel between the mobile information

apparatus and the selected output device, the communication channel including a radio

frequency wireless communication channel at the mobile information apparatus; (See

Lo, Col. 6 lines 18-29)

software for receiving at the mobile information apparatus one or more components associated with the selected output device and enabling the data content to be rendered by the selected output device, the one or more components including an indication of an output data associated with the selected output device;

software for conforming at the mobile information apparatus the data content to the output data associated with the selected output device; and

software for delivering the output data to the selected output device for rendering. (See Yamamoto, Col. 8 lines 13-27, Col. 10 lines 12-25, Col. 10 lines 12-25, Col. 2 lines 54-60, Col. 24 lines 13-17, JPEG and GIF are inherently raster type image formats, Col. 11 lines 50 to Col. 12 line 35 and figure 7) (See Lo, Col. 7 lines 35-20, Col. 6 lines 18-29)

For claim 66, Yamamoto-Lo teaches, a data output method for rendering at one or more output devices associated with a selected output system data content accessed from an mobile information apparatus, comprising:

establishing a communication channel between the mobile information apparatus and the selected output system, the communication channel including a radio frequency wireless communication channel at the mobile information apparatus; (See Lo, Col. 6 lines 18-29)

receiving at the mobile information apparatus over the communication channel one or more attributes corresponding to the one or more output devices associated with the output system;

selecting at the mobile information apparatus one or more output devices for rendering

the data content based at least in part on the one or more attributes; and

delivering the data content to the selected output system for rendering at the selected

one or more output devices. (See Lo, Col. 7 lines 35-20) (See Yamamoto, Col. 8 lines

13-27, Col. 10 lines 12-25, Col. 10 lines 12-25, Col. 2 lines 54-60, Col. 24 lines 13-17,

JPEG and GIF are inherently raster type image formats, Col. 11 lines 50 to Col. 12 line

35 and figure 7)

For claim 67, Yamamoto-Lo teaches, the method of claim 66 further including

conforming at the mobile information apparatus the data content in accordance with the

one or more attributes before delivering the data content to the one or more selected

output devices for rendering. (See Yamamoto, Col. 10 lines 12-25)

For claim 69, Yamamoto-Lo teaches, the method of claim 66 in which the selected

output system includes a network. (See Yamamoto, Col. 1 lines 7-12)

For claim 70, Yamamoto-Lo teaches, the method of claim 66 in which the selected

output system includes at least one output device and at least one output controller.

(See Yamamoto, Col. 9 line 55 to Col. 10 line 25)

For claim 71, Yamamoto-Lo teaches, the method of claim 66 in which an output

controller in the selected output system communicates with the mobile information

apparatus. (See Yamamoto, Col. 9 line 55 to Col. 10 line 25)

For claim 72, Yamamoto-Lo teaches, the method of claim 71 in which the output

controller is associated with one or more output devices. (See Yamamoto, Col. 9 line 55

to Col. 10 line 25)

For claim 73, Yamamoto-Lo teaches, the method of claim 71 in which the output

controller is one of a server, an external controller and a data access point. (See

Yamamoto, Col. 9 line 55 to Col. 10 line 25)

For claim 74, Yamamoto-Lo teaches, the method of claim 71 in which the output

controller receives the data content. (See Yamamoto, Col. 9 line 55 to Col. 10 line 25)

For claim 75, Yamamoto-Lo teaches, the method of claim 74 in which the output

controller performs raster image processing on the data content. (See Yamamoto, Col.

24 lines 13-17, JPEG and GIF are inherently raster type image formats, Col. 11 lines 50

to Col. 12 line 35, figure 7 and, Col. 9 line 55 to Col. 10 line 25)

For claim 76, Yamamoto-Lo teaches, the method of claim 74 further including

converting the data content into a form compatible to the selected one or more output

devices. (See Yamamoto, Col. 24 lines 13-17, JPEG and GIF are inherently raster type image formats, Col. 11 lines 50 to Col. 12 line 35, figure 7 and, Col. 9 line 55 to Col. 10 line 25)

For claim 77, Yamamoto-Lo teaches, the method of claim 74 further comprising the output controller delivering the data content to the selected one or more output devices. (See Yamamoto, Col. 24 lines 13-17, JPEG and GIF are inherently raster type image formats, Col. 11 lines 50 to Col. 12 line 35, figure 7 and, Col. 9 line 55 to Col. 10 line 25)

For claim 78, Yamamoto-Lo teaches, a data output method for rendering at an output device associated with a selected output system data content accessed from an mobile information apparatus, comprising:

establishing a communication channel between the mobile information apparatus and the selected output system, the communication channel including a radio frequency wireless communication channel at the mobile information apparatus; (See Lo, Col. 6 lines 18-29)

receiving at the mobile information apparatus one or more components from the selected output system and enabling the data content to be rendered by the output device associated the selected output system;

conforming at the mobile information apparatus the data content to an output data with the one or more components; and

delivering the output data to the selected output system for rendering by the output device. (See Lo, Col. 7 lines 35-20) (See Yamamoto, Col. 8 lines 13-27, Col. 10 lines 12-25, Col. 10 lines 12-25, Col. 2 lines 54-60, Col. 24 lines 13-17, JPEG and GIF are inherently raster type image formats, Col. 11 lines 50 to Col. 12 line 35 and figure 7)

For claim 79, Yamamoto-Lo teaches, the method of claim 78 in which the communication channel includes a wireless communication channel. (See Lo, Col. 6 lines 18-29)

For claim 80, Yamamoto-Lo teaches, the method of claim 78 in which the selected output system includes a network. (See Yamamoto, Col. 1 lines 7-12)

For claim 81, Yamamoto-Lo teaches, the method of claim 78 in which the selected output system includes at least one output device and at least one output controller. (See Yamamoto, Col. 9 line 55 to Col. 10 line 25)

For claim 82, Yamamoto-Lo teaches, the method of claim 78 in which an output controller associated with the selected output system communicates with the mobile information apparatus. (See Yamamoto, Col. 9 line 55 to Col. 10 line 25)

For claim 83, Yamamoto-Lo teaches, the method of claim 82 in which the output

controller is one of a server, an external controller and a data access point. (See

Yamamoto, Col. 9 line 55 to Col. 10 line 25)

For claim 84, Yamamoto-Lo teaches, the method of claim 82 in which the output

controller receives the output data. (See Yamamoto, Col. 9 line 55 to Col. 10 line 25)

For claim 85, Yamamoto-Lo teaches, the method of claim 82 in which the output

controller performs raster image processing on the output data. (See Yamamoto, Col.

24 lines 13-17, JPEG and GIF are inherently raster type image formats, Col. 11 lines 50

to Col. 12 line 35, figure 7, and Col. 9 line 55 to Col. 10 line 25)

For claim 86, Yamamoto-Lo teaches, the method of claim 84 further including

converting the output data into a form compatible to the output devices. (See

Yamamoto, Col. 24 lines 13-17, JPEG and GIF are inherently raster type image

formats, Col. 11 lines 50 to Col. 12 line 35, figure 7, and Col. 9 line 55 to Col. 10 line 25)

For claim 87, Yamamoto-Lo teaches, the method of claim 84 further comprising the

output controller delivering the output data to the output devices. (See Yamamoto, Col.

24 lines 13-17, JPEG and GIF are inherently raster type image formats, Col. 11 lines 50

to Col. 12 line 35, figure 7, and Col. 9 line 55 to Col. 10 line 25)

For claim 88, Yamamoto-Lo teaches, the method of claim 78 in which the one or more components are stored in one or more output controllers associated with the output devices. (See Yamamoto, Col. 11 lines 50 to Col. 12 line 35)

For claim 89, Yamamoto-Lo teaches, the method of claim 78 in which the one or more components include at least part of a printer driver. (See Yamamoto, Col. 10 line 37 to Col. 11 line 5)

For claim 90, Yamamoto-Lo teaches, the method of claim 78 in which the one or more components include software code. (See Yamamoto, Col. 31 lines 50-65)

For claim 91, Yamamoto-Lo teaches, the method of claim 78 in which the one or more components include one or more device dependent information or parameter relating to the selected output device. (See Yamamoto, Col. 9 lines 7-19)

For claim 92, Yamamoto-Lo teaches, the method of claim 78 in which the one or more components relate to one or more of a device driver, a printer driver, an output driver, and an user interface. (See Yamamoto, Col. 10 line 37 to Col. 11 line 5)

For claim 93, Yamamoto-Lo teaches, the method of claim 78 in which the one or more components include information characterizing an output service provided by the selected output system. (See Yamamoto, Co. 12 lines 17-35 and Col. 11 lines 12-29)

For claim 94, Yamamoto-Lo teaches, the method of claim 78 in which the one or more components include a software application. (See Yamamoto, Col. 10 line 37 to Col. 11 line 5)

For claim 95, Yamamoto-Lo teaches, the method of claim 78 in which the mobile information apparatus includes one of a mobile computing device, a pervasive device, a digital camera, and a personal computer. (See Yamamoto, Col. 8 lines 13-27)

For claim 96, Yamamoto-Lo teaches, the method of claim 78 in which the output device includes one of a printing device, a display device, and an audio output device. (See Yamamoto, Col. 14 lines 8-15)

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ajay M. Bhatia whose telephone number is (571)-272-3906. The examiner can normally be reached on M-F 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Cardone can be reached on (571)272-3933. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jason Cardone
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Art Unit 2145

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